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TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US)**

ATTORNEY'S DOCKET NUMBER **ISI-100**

see 37 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/GB2004/002499 June 14, 2004 June 13, 2003 and January 9, 2004 TITLE OF INVENTION Improved Vaccines APPLICANT(S) FOR DO/EO/US ADRIAN HILL, ANNE C. MOORE, CLAIRE L. NICOLL Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). \square A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). **V** An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). unsigned 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to life (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. PCT/GB2004/002499			ATTORNEY'S DOCKET NUMBER ISI-100				
20. Othe	r items or informat	ion:					
Copy of front page of the published PCT application							
The fo	lowing fees have t	een submitted			CALCULATIONS	PTO USE ONLY	
21. 🗸 Bas	sic national fee (37	CFR 1.492(a))		\$300	\$ 300.00		
22.							
by IPEA	nion prepared by I /US indicates all cons	\$200.00					
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority					\$400.00		
TOTAL OF 21, 22 and 23 =					\$900.00		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number)							
119 - 100 =	19 /50 =	thereof (round	. 1	× \$250	\$250.00		
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					\$		
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$		
Total claims		22 - 20 =	2	x \$ 50	\$100.00		
Independent clai	ms	3 - 3 =	0	x \$200	\$0.00		
MULTIPLE DEP	ENDENT CLAIM(S) (if applicable)		+ \$360	\$0.00		
			TOTAL OF ABOVE		\$1,250.00		
✓ Applicant cla	aims small entity st	atus. See 37 CF	R 1.27. Fees above are reduce	ed by 1/2.	\$625.00		
				SUBTOTAL =	\$625.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			\$				
TOTAL NATIONAL FEE =			\$ 625.00				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$0.00				
TOTAL FEES ENCLOSED =				\$ 625.00			
					Amount to be refunded:	\$	
					Amount to be charged	\$	

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b. 🗸	Please charge my Deposit Account N A duplicate copy of this sheet is encle	lo. <u>19-0065</u> in the amount of					
c. 🗸	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>19-0065</u> . A duplicate copy of this sheet is enclosed.						
d. 	Fees are to be charged to a credit card. WARNING : Information on this form may become public. Credit card information should not be included on this form . Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
	• •						
SEND ALL CORRESPONDENCE TO: FRANK C'EXCUSTRENT							
CUSTOMER NUMBER 23557		December 13, 2005	SIGNATURE Frank C. Eisenschenk, Ph.D.				
		Date	NAME 45,332				
			REGISTRATION NUMBER				
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10/560514 IAP6 Rec'd PCT/PTO 13 DEC 2005

Patent Application Docket No. ISI-100

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Adrian Hill, Anne C. Moore, Claire L. Nicoll

Docket No.

ISI-100

For

Improved Vaccines

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313

CERTIFICATE OF MAILING BY EXPRESS MAIL (37 CFR §1.10)

	11EQ005884864US	
Express Mail No.:		Date of Deposit: December 13, 2005

I hereby certify that the attached Transmittal Letter to the United States Designated/Elected Office (DO/EO/US), Preliminary Amendment, Application Data Sheet, cover page of published international application, and unexecuted Declaration (37 CFR §1.63) and Power of Attorney, with copies as required for authorization for use of Deposit Account No. 19-0065, are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and are addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313.

David M. Gilland	()avid	$M \left(\gamma \right) / \gamma $
Name of person mailing paper	Signature	